

PATENT COOPERATION TREATY

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference IR-002-PCT	FOR FURTHER ACTION see Notification of Transmittal of International Search Report (Form PCT/ISA/220) as well as, where applicable, item 5 below.	
International application No. PCT/US 97/ 22145	International filing date (day/month/year) 03/12/1997	(Earliest) Priority Date (day/month/year) 05/12/1996
Applicant INTERVAL RESEARCH CORPORATION		

This International Search Report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau.

This International Search Report consists of a total of 4 sheets.

☒ It is also accompanied by a copy of each prior art document cited in this report.

1. ☐ Certain claims were found unsearchable (see Box I).
2. ☐ Unity of invention is lacking (see Box II).
3. ☐ The international application contains disclosure of a **nucleotide and/or amino acid sequence listing** and the international search was carried out on the basis of the sequence listing

☐ filed with the international application.

☐ furnished by the applicant separately from the international application,

☐ but not accompanied by a statement to the effect that it did not include matter going beyond the disclosure in the international application as filed.

☐ Transcribed by this Authority

4. With regard to the title, ☒ the text is approved as submitted by the applicant
☐ the text has been established by this Authority to read as follows:

5. With regard to the abstract,

☒ the text is approved as submitted by the applicant

☐ the text has been established, according to Rule 38.2(b), by this Authority as it appears in Box III. The applicant may, within one month from the date of mailing of this International Search Report, submit comments to this Authority.

6. The figure of the **drawings** to be published with the abstract is:

Figure No. 1 ☒ as suggested by the applicant.

☐ because the applicant failed to suggest a figure.

☐ because this figure better characterizes the invention.

☐ None of the figures.

INTERNATIONAL SEARCH REPORT

International Application No

PCT/US 97/22145

A. CLASSIFICATION OF SUBJECT MATTER

IPC 6 G06F17/30

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 6 G06F

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 5 428 774 A (TAKAHASHI JUNICHI ET AL) 27 June 1995 see column 5, line 16 - column 6, line 37; figure 5 see column 11, line 30 - line 58 ---	1-7, 18, 21, 28, 34, 59
A	WO 96 12240 A (UNIV CARNEGIE MELLON) 25 April 1996 see the whole document --- -/--	1-62

☒ Further documents are listed in the continuation of box C.☒ Patent family members are listed in annex.

* Special categories of cited documents:

- "A" document defining the general state of the art which is not considered to be of particular relevance
- "E" earlier document but published on or after the international filing date
- "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- "O" document referring to an oral disclosure, use, exhibition or other means
- "P" document published prior to the international filing date but later than the priority date claimed

- "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- "&" document member of the same patent family

Date of the actual completion of the international search

20 April 1998

Date of mailing of the international search report

29/04/1998

Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentlaan 2
NL - 2280 HV Rijswijk
Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,
Fax: (+31-70) 340-3016

Authorized officer

Fournier, C

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	<p>SHIBATA M: "A DESCRIPTION MODEL OF VIDEO CONTENT AND ITS APPLICATION FOR VIDEO STRUCTURING" SYSTEMS & COMPUTERS IN JAPAN, vol. 27, no. 7, 15 June 1996, pages 70-83, XP000596044 see page 74, right-hand column, paragraph 3 - page 82, left-hand column, paragraph 4 ---</p>	1-5, 8, 9, 15, 18, 34-46, 60, 61
A	<p>YEUNG M M ET AL: "EFFICIENT MATCHING AND CLUSTERING OF VIDEO SHOTS" PROCEEDINGS OF THE INTERNATIONAL CONFERENCE ON IMAGE PROCESSING (ICIP), WASHINGTON, OCT. 23 - 26, 1995, vol. VOL. 1, 23 October 1995, INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS, pages 338-341, XP000624244 see page 338, right-hand column, paragraph 2 - page 339, right-hand column, paragraph 4 ---</p>	36-46, 60, 61
A	<p>WACTLAR H D ET AL: "INTELLIGENT ACCESS TO DIGITAL VIDEO: INFORMEDIA PROJECT" COMPUTER, vol. 29, no. 5, 1 May 1996, pages 46-52, XP000591712 see the whole document ---</p>	1-62
A	<p>SAKAUCHI M ET AL: "MULTIMEDIA DATABASE SYSTEMS FOR THE CONTENTS MEDIATOR" IEICE TRANSACTIONS ON INFORMATION AND SYSTEMS, vol. E79-D, no. 6, 1 June 1996, pages 641-646, XP000595167 see page 641, right-hand column, paragraph 2 - page 644, right-hand column, paragraph 4 ---</p>	1, 34-36, 42, 59-61
A	<p>SHAHRRARAY B ET AL: "AUTOMATIC GENERATION OF PICTORIAL TRANSCRIPTS OF VIDEO PROGRAMS" PROCEEDINGS OF THE SPIE, vol. 2417, 1 January 1995, pages 512-518, XP000564145 see page 515, paragraph 6; figures 2-4 ---</p>	1
A	<p>LINDBLAD C J ET AL: "VIEW STATION APPLICATIONS: IMPLICATIONS FOR NETWORK TRAFFIC" IEEE JOURNAL ON SELECTED AREAS IN COMMUNICATIONS, vol. 13, no. 5, 1 June 1995, pages 768-777, XP000499085 see the whole document -----</p>	1-62

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/US 97/22145

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
US 5428774 A	27-06-95	JP 2025150 C	26-02-96
		JP 6187379 A	08-07-94
		JP 7056652 B	14-06-95

WO 9612240 A	25-04-96	US 5664227 A	02-09-97
		CA 2202540 A	25-04-96
		EP 0786115 A	30-07-97
